
1...Write an app to toast your joining date and course selected for engineering using date picker and list view.

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context="com.tutorialsface.final1.MainActivity">
    <TableLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent">

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Joining Date : "
            android:id="@+id/textView"
            android:layout_alignParentTop="true"
            android:layout_alignParentStart="true" />

        <DatePicker
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:id="@+id/datePicker"
            android:layout_alignParentTop="true"
            android:layout_toEndOf="@+id/textView" />

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Course : "
            android:id="@+id/textView2"
            android:layout_below="@+id/textView"
            android:layout_alignParentStart="true" />

        <ListView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:id="@+id/listView"
            android:choiceMode="multipleChoice" />

    </TableLayout>
</RelativeLayout>
```

```
package com.tutorialsface.final1;

import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
```

```

import android.widget.DatePicker;
import android.widget.ListView;
import android.widget.TextView;
import android.widget.Toast;

import java.util.ArrayList;

public class MainActivity extends AppCompatActivity {

    DatePicker datePicker;
    ListView listView;
    String[] values = new String[] { "ISE", "CSE", "ECE" };

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        datePicker = (DatePicker) findViewById(R.id.datePicker);
        listView = (ListView) findViewById(R.id.listView);

        ArrayAdapter<String> adapter = new
ArrayAdapter<String>(this, android.R.layout.simple_list_item_1, values);
        listView.setAdapter(adapter);
        listView.setOnItemClickListener(new AdapterView.OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<?> parent, View view,
                                    int position, long id) {
                TextView temp=(TextView) view;
                String Value = listView.getItemAtPosition(position).toString();

                Toast.makeText(getApplicationContext(),
                               "Course Selected : " + Value, Toast.LENGTH_LONG)
                    .show();
            }
        });

        Toast.makeText(getApplicationContext(),
                       "Joining Date : " + datePicker.getDayOfMonth() + "/" +
datePicker.getMonth() + "/" + datePicker.getYear(),
                       Toast.LENGTH_LONG).show();
    }

}

```

2...Write an app to demonstrate the activity lifecycle by logging the activities in the LogCat or toast at every stage

```

package com.tutorialsface.e2;

import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;

```

```

import android.util.Log;
import android.view.View;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    String msg = "Android : ";

    /** Called when the activity is first created. */
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Toast.makeText(getApplicationContext(), "The onCreate()
event", Toast.LENGTH_LONG).show();
    }

    /** Called when the activity is about to become visible. */
    @Override
    protected void onStart() {
        super.onStart();
        Toast.makeText(getApplicationContext(), "The onStart()
event", Toast.LENGTH_LONG).show();
    }

    /** Called when the activity has become visible. */
    @Override
    protected void onResume() {
        super.onResume();
        Toast.makeText(getApplicationContext(), "The onResume()
event", Toast.LENGTH_LONG).show();
    }

    /** Called when another activity is taking focus. */
    @Override
    protected void onPause() {
        super.onPause();
        Toast.makeText(getApplicationContext(), "The onPause()
event", Toast.LENGTH_LONG).show();
    }

    /** Called when the activity is no longer visible. */
    @Override
    protected void onStop() {
        super.onStop();
        Toast.makeText(getApplicationContext(), "The onStop()
event", Toast.LENGTH_LONG).show();
    }

    /** Called just before the activity is destroyed. */
    @Override
    public void onDestroy() {
        super.onDestroy();
        Toast.makeText(getApplicationContext(), "The onDestroy()
event", Toast.LENGTH_LONG).show();
        Log.d(msg, "The onDestroy() event");
    }
}

```

.....

3...Create an application which generates a random color on each click

```
package com.tutorialsfac.e3;

import android.graphics.Color;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.RelativeLayout;

import java.util.Random;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        final RelativeLayout rl = (RelativeLayout) findViewById(R.id.rellayout); //
        // rellayout is the id from relativelayout
        rl.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {

                rl.setBackgroundColor(randomColor());

            }
        });
    }

    int randomColor(){
        Random r = new Random();
        int red = r.nextInt(256);
        int green = r.nextInt(256);
        int blue = r.nextInt(256);
        return Color.rgb(red,green,blue);
    }
}
```

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    android:id="@+id/rellayout"
    tools:context="com.tutorialsfac.e3.MainActivity">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Tap the screen to change colour!" />
</RelativeLayout>
```

4...Implement an app for flash screen using threads

```

package com.tutorialsface.final4;

import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        new Handler().postDelayed(new Runnable() {
            @Override
            public void run() {
                Intent i = new Intent(MainActivity.this, MainActivity2.class);
                startActivity(i);
                finish();
            }
        }, 5*1000);
    }

    protected void onDestroy() {
        super.onDestroy();
    }
}

```

5...Implement web view concept in application which contains multiple activity and default HTML pages.

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context="com.tutorialsface.final5.MainActivity">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="WebView!"
        android:id="@+id/textView" />

    <EditText
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/editText"
        android:layout_below="@+id/textView"
        android:layout_alignParentStart="true"
        android:text="Enter Text" />

```

```

<WebView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/webView"
    android:layout_below="@+id/editText"
    android:layout_alignParentStart="true" />

<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Enter"
    android:id="@+id/button"
    android:layout_below="@+id/webView"
    android:layout_alignParentStart="true"
    android:layout_marginTop="37dp" />

```

```
</RelativeLayout>
```

```
package com.tutorialsfac.final5;
```

```

import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.webkit.WebView;
import android.webkit.WebViewClient;
import android.widget.Button;
import android.widget.EditText;

```

```
public class MainActivity extends AppCompatActivity {
```

```

    Button b;
    EditText e;
    WebView w;

```

```
    @Override
```

```

    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }

```

```

    b = (Button) findViewById(R.id.button);
    e = (EditText) findViewById(R.id.editText);
    w = (WebView) findViewById(R.id.webView);

```

```
    w.setWebViewClient(new MyBrowser());
```

```

    b.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            String url = e.getText().toString();
            w.getSettings().setLoadsImagesAutomatically(true);
            w.getSettings().setJavaScriptEnabled(true);
            w.setScrollBarStyle(View.SCROLLBARS_INSIDE_OVERLAY);
            w.loadUrl(url);
        }
    });

```

```
}
```

```
public class MyBrowser extends WebViewClient {
```

```
    @Override
```

```

    public boolean shouldOverrideUrlLoading(WebView view, String url) {
        view.loadUrl(url);
        return true;
    }

```

```
}
```

```
}  
}  
}
```

6...Implement an app to store and retrieve data by using shared preference.

```
<?xml version="1.0" encoding="utf-8"?>  
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
    xmlns:tools="http://schemas.android.com/tools"  
    android:layout_width="match_parent"  
    android:layout_height="match_parent"  
    android:paddingBottom="@dimen/activity_vertical_margin"  
    android:paddingLeft="@dimen/activity_horizontal_margin"  
    android:paddingRight="@dimen/activity_horizontal_margin"  
    android:paddingTop="@dimen/activity_vertical_margin"  
    tools:context="com.tutorialsface.final6.MainActivity">  
  
    <LinearLayout  
        android:orientation="vertical"  
        android:layout_width="match_parent"  
        android:layout_height="match_parent"  
        android:layout_alignParentTop="true"  
        android:layout_alignParentStart="true">  
  
        <EditText  
            android:layout_width="match_parent"  
            android:layout_height="wrap_content"  
            android:id="@+id/editText"  
            android:text="Name" />  
  
        <EditText  
            android:layout_width="match_parent"  
            android:layout_height="wrap_content"  
            android:id="@+id/editText2"  
            android:text="Email" />  
  
        <LinearLayout  
            android:orientation="horizontal"  
            android:layout_width="match_parent"  
            android:layout_height="wrap_content">  
  
            <Button  
                android:layout_width="wrap_content"  
                android:layout_height="wrap_content"  
                android:text="Save"  
                android:onClick="savee"  
                android:id="@+id/button" />  
  
            <Button  
                android:layout_width="wrap_content"  
                android:layout_height="wrap_content"  
                android:text="Clear"  
                android:onClick="clearr"  
                android:id="@+id/button2" />  
  
        <Button
```

```

        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Retreive"
        android:onClick="rett"
        android:id="@+id/button3" />
    </LinearLayout>
</LinearLayout>
</RelativeLayout>

```

```

package com.tutorialsface.final6;

import android.content.Context;
import android.content.SharedPreferences;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

    EditText n,e;
    SharedPreferences sharedPreferences;

    public static final String myprefrence = "mypref";
    public static final String Name = "namekey";
    public static final String Email = "emailkey";

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        n = (EditText) findViewById(R.id.editText);
        e = (EditText) findViewById(R.id.editText2);
        sharedPreferences = getSharedPreferences(myprefrence, Context.MODE_PRIVATE);
    }

    public void savee(View view){
        String name = n.getText().toString();
        String email = e.getText().toString();
        SharedPreferences.Editor editor = sharedPreferences.edit();
        editor.putString(Name,name);
        editor.putString(Email,email);
        editor.commit();
    }

    public void clearr(View view){
        n.setText("");
        e.setText("");
    }

    public void rett(View view){
        n.setText(sharedPreferences.getString(Name,""));
        e.setText(sharedPreferences.getString(Email,""));
    }
}

```

7...Implement Option menu concept in application to choose between two activities.

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context="com.tutorialsface.final7.MainActivity">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="First Activity!" />
</RelativeLayout>

```

```

package com.tutorialsface.final7;

```

```

import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;

```

```

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }

    public boolean onCreateOptionsMenu(Menu menu) {
        MenuInflater inflater = getMenuInflater();
        inflater.inflate(R.menu.menu_main, menu);
        return true;
    }

    public boolean onOptionsItemSelected(MenuItem item) {
        switch (item.getItemId()) {
            case R.id.f1:
                Intent i = new Intent(this, MainActivity.class);
                startActivity(i);
                return true;
            case R.id.f2:
                Intent j = new Intent(this, MainActivity2.class);
                startActivity(j);
                return true;
            default:
                return super.onOptionsItemSelected(item);
        }
    }

}

```

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"

```

```

        android:paddingRight="@dimen/activity_horizontal_margin"
        android:paddingTop="@dimen/activity_vertical_margin"
        tools:context="com.tutorialsface.final7.MainActivity2">

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Second Activity!" />
    </RelativeLayout>
</package>
package com.tutorialsface.final7;

import android.content.Intent;
import android.os.Bundle;
import android.support.v7.app.AppCompatActivity;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;

public class MainActivity2 extends MainActivity{

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);
    }
}
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">

    <item android:id="@+id/f1"
        android:title="firstActivity"
        />
    <item android:title="secondActivity"
        android:id="@+id/f2"
        />

</menu>
}

```

.....

8... Implement context menu concept in application to change the background color.

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    android:id="@+id/RelLay"
    android:background="@android:color/white"
    tools:context="com.tutorialsface.final8.MainActivity">

    <TextView
        android:layout_width="wrap_content"

```

```

        android:layout_height="wrap_content"
        android:id="@+id/textV"
        android:text="Hello World!" />
</RelativeLayout>

```

```

package com.tutorialsface.final8;

import android.content.Context;
import android.graphics.Color;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.ContextMenu;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.View;
import android.widget.RelativeLayout;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {

    RelativeLayout rl;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        rl = (RelativeLayout) findViewById(R.id.Rellay);
        TextView textView = (TextView) findViewById(R.id.textV);
        registerForContextMenu(textView);
    }

    public void onCreateContextMenu(ContextMenu menu, View v,
ContextMenu.ContextMenuInfo menuInfo){
        super.onCreateContextMenu(menu,v,menuInfo);
        MenuInflater inflater = getMenuInflater();
        inflater.inflate(R.menu.menu_main,menu);
    }

    public boolean onContextItemSelected(MenuItem item){
        rl = (RelativeLayout) findViewById(R.id.Rellay);
        switch (item.getItemId()){
            case R.id.option1:
                rl.setBackgroundColor(Color.RED);
                return true;
            case R.id.option2:
                rl.setBackgroundColor(Color.BLUE);
                return true;
            case R.id.option3:
                rl.setBackgroundColor(Color.GREEN);
                return true;
            default:
                return false;
        }
    }
}

```

```

<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">
    <item android:id="@+id/option1"
        android:title="Red"/>
    <item android:id="@+id/option2"
        android:title="Blue"/>
    <item android:id="@+id/option3"
        android:title="Green"/>

```

```
</menu>
```

9... Write an app to send SMS using Intent class.

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context="com.tutorialsface.final9.MainActivity">
```

```
    <LinearLayout
        android:orientation="vertical"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_alignParentTop="true"
        android:layout_alignParentStart="true">

        <EditText
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:id="@+id/editText" />

        <EditText
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:id="@+id/editText2" />

        <Button
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="SEND"
            android:id="@+id/button" />
    </LinearLayout>
```

```
</RelativeLayout>
```

```
package com.tutorialsface.final9;

import android.app.PendingIntent;
import android.content.Intent;
import android.net.Uri;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.telephony.SmsManager;
import android.util.Log;
import android.view.Menu;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
```

```

public class MainActivity extends AppCompatActivity {

    Button buttonSend;
    EditText ph,m;

    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        buttonSend = (Button) findViewById(R.id.button);
        ph = (EditText) findViewById(R.id.editText);
        m = (EditText) findViewById(R.id.editText2);

        buttonSend.setOnClickListener(new View.OnClickListener() {

            @Override
            public void onClick(View v) {
                sendSMS();
            }

            public void sendSMS(){

                try {
                    String phoneNumber = "+91"+ph.getText().toString();
                    String message = m.getText().toString();
                    Intent intent = new Intent(Intent.ACTION_VIEW,
Uri.parse("sms:" + phoneNumber));
                    intent.putExtra("sms_body", message);
                    startActivity(intent);
                    Toast.makeText(getApplicationContext(), "SMS SENT!",
Toast.LENGTH_LONG).show();

                } catch (Exception e) {
                    Toast.makeText(getApplicationContext(), "SMS failed, please try
again later!", Toast.LENGTH_LONG).show();
                    e.printStackTrace();
                }
            }
        });
    }
}

```

10... Implement phone call concept in application by passing number from the user.

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context="com.tutorialsface.final10.MainActivity">

    <EditText

```

```

        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:id="@+id/editText"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="51dp" />

<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Call"
    android:id="@+id/button"
    android:layout_below="@+id/editText"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="80dp" />
</RelativeLayout>

```

```

package com.tutorialsface.final10;

import android.Manifest;
import android.content.Intent;
import android.content.pm.PackageManager;
import android.net.Uri;
import android.support.v4.app.ActivityCompat;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

    Button b;
    EditText e;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        b = (Button) findViewById(R.id.button);
        e = (EditText) findViewById(R.id.editText);

        b.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String n = e.getText().toString();
                Intent i = new Intent(Intent.ACTION_DIAL);
                i.setData(Uri.parse("tel:+91"+n));
                startActivity(i);
            }
        });
    }
}

```

.....

11... Demonstrate the sending of an email with the help of a registered email client on your android phone.

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context="com.tutorialsfacel.fina111.MainActivity">

    <LinearLayout
        android:orientation="vertical"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_alignParentTop="true"
        android:layout_alignParentStart="true">

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Mail Id : "
            android:id="@+id/textView" />

        <EditText
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:id="@+id/editText"
            android:layout_gravity="center_horizontal" />

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Subject : "
            android:id="@+id/textView2" />

        <EditText
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:id="@+id/editText2" />

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Body : "
            android:id="@+id/textView3" />

        <EditText
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:id="@+id/editText3" />

        <Button
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="SEND"
            android:id="@+id/button" />

    </LinearLayout>
</RelativeLayout>
```

```
package com.tutorialsfac.final11;

import android.content.Intent;
import android.net.Uri;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

    EditText e1,e2,e3;
    Button b;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        e1 = (EditText) findViewById(R.id.editText);
        e2 = (EditText) findViewById(R.id.editText2);
        e3 = (EditText) findViewById(R.id.editText3);

        b = (Button) findViewById(R.id.button);
        b.setOnClickListener(new View.OnClickListener() {
            public void onClick(View view) {
                sendEmail();
            }
        });
    }

    protected void sendEmail() {
        Intent intent = new Intent(Intent.ACTION_SENDTO); // it's not ACTION_SEND
        intent.setType("text/plain");
        intent.putExtra(Intent.EXTRA_SUBJECT, ""+e2.getText().toString());
        intent.putExtra(Intent.EXTRA_TEXT, ""+e3.getText().toString());
        intent.setData(Uri.parse("mailto:"+e1.getText().toString())); // or just
        "mailto:" for blank
        intent.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK); // this will make such that
        when user returns to your app, your app is displayed, instead of the email app.
        startActivity(intent);
    }
}
```

12... Make dialogue box to confirm the change of background color or image

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    android:id="@+id/RelLay"
    tools:context="com.tutorialsfac.e.final12.MainActivity">
```



```

        <Button
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Change???"
            android:id="@+id/button"
            android:layout_centerVertical="true"
            android:layout_centerHorizontal="true" />
    </RelativeLayout>
}

package com.tutorialsface.final12;

import android.content.DialogInterface;
import android.graphics.Color;
import android.support.v7.app.AlertDialog;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.RelativeLayout;

import java.util.Random;

public class MainActivity extends AppCompatActivity {
    Button bt;
    RelativeLayout rl;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        bt = (Button)findViewById(R.id.button);
        rl = (RelativeLayout)findViewById(R.id.Rellay);

        bt.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                AlertDialog.Builder builder;
                builder = new AlertDialog.Builder(MainActivity.this);
                builder.setTitle("Change?")
                    .setMessage("Are you sure you want to change the color?")
                    .setPositiveButton("YES", new
DialogInterface.OnClickListener() {
                        public void onClick(DialogInterface dialog, int which) {
                            Random rnd = new Random();

                            rl.setBackgroundColor(Color.rgb(rnd.nextInt(256),rnd.nextInt(256),rnd.nextInt(256)));
                        }
                    })
                    .setNegativeButton("NO", new DialogInterface.OnClickListener() {
                        public void onClick(DialogInterface dialog, int which) {
                            // do nothing
                        }
                    })
                    .setIcon(android.R.drawable.ic_dialog_alert)
                    .show();
            }
        });
    }
}

```

13... Capture the image using camera and set it as background for your app.

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    android:id="@+id/RelLay"
    tools:context="com.tutorialsface.final13.MainActivity">

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Capture"
        android:id="@+id/button"
        android:layout_centerVertical="true"
        android:layout_centerHorizontal="true" />

</RelativeLayout>
```

```
package com.tutorialsface.final13;

import android.app.Activity;
import android.content.Intent;
import android.graphics.Bitmap;
import android.graphics.drawable.BitmapDrawable;
import android.net.Uri;
import android.os.Environment;
import android.provider.MediaStore;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.ImageView;
import android.widget.RelativeLayout;

import java.io.File;
import java.text.SimpleDateFormat;
import java.util.Date;

public class MainActivity extends AppCompatActivity {
    Button bt;
    RelativeLayout rl;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        bt = (Button) findViewById(R.id.button);
        rl = (RelativeLayout) findViewById(R.id.RelLay);
        bt.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent takePictureIntent = new
```

```

Intent(MediaStore.ACTION_IMAGE_CAPTURE);
        if (takePictureIntent.resolveActivity(getPackageManager()) != null) {
//if not compulsory
            startActivityForResult(takePictureIntent, 1);
        }
    }
});
}
protected void onResume() {
    super.onResume();
}
public void onActivityResult(int requestCode, int resultCode, Intent data) {
    if (requestCode == 1 && data != null) {
        Bundle extras = data.getExtras();
        if (extras != null) {
            Bitmap photo = (Bitmap) extras.get("data");
            if (photo != null) {
                rl.setBackground(new BitmapDrawable(getResources(), photo));
            }
        }
    }
}
}
}

```